

Title (en)

Data processing system having an instruction pipeline

Title (de)

Datenverarbeitungssystem mit Befehlspipeline

Title (fr)

Système de traitement de données avec pipeline d'instruction

Publication

EP 0862112 A3 20001206 (EN)

Application

EP 98102737 A 19980217

Priority

- JP 4406497 A 19970227
- JP 28999497 A 19971022

Abstract (en)

[origin: EP0862112A2] A data processing system having a pipeline is provided which includes a CPU designed to fetch a plurality of instructions simultaneously from a memory through a data bus in an instruction fetching stage. Each of the instructions is expressed in a string of bits having a bit length which is shorter than a bus width of the data bus. The instruction fetching stage is effected every instruction processing cycles of a number equal to the number of the instructions simultaneously fetched from the memory for a period of time during which instruction decoding stages of a number equal to the number of simultaneously fetched instructions are effected in the instruction processing cycles in succession. This enables high-speed pipelined operations. <IMAGE>

IPC 1-7

G06F 9/38

IPC 8 full level

G06F 9/38 (2006.01)

CPC (source: EP)

G06F 9/3802 (2013.01); **G06F 9/3824** (2013.01); **G06F 9/3836** (2013.01); **G06F 9/3869** (2013.01); **G06F 9/3875** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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